

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2005/000458

A. CLASSIFICATION OF SUBJECT MATTER IPC(7): G01N 1/28, C12M 1/34, C12Q 1/68, G01N 37/00, B01L 11/00, G01N 21/05		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) G01N 1/28, C12M 1/34, C12Q 1/68, G01N 37/00, B01L 11/00, G01N 21/05 and keywords		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used) USPTO WEST, Questel Orbit/PLUSPAT - keywords: microfluidic, centrifuge, centrifugal, microscope, slide		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/35088A1 - Wang et al (New Mexico State University Technology Transfer Corporation) 17 May, 2001 (2001/05/17) Abstract page 3, lines 15 - 30 page 4, lines 5 - 7, 25 - 28	1 - 30, 33 - 35, 37 - 38, 40, 44, 49 - 50, 60 - 74, 76 - 77, 82 - 83, 88 - 89, 93 - 95, 99 - 100, 102, 111 - 119, 123, 126, 128 - 133, 137 & 140
Y	page 5, lines 11 - 15page 10, last paragraph page 13, line 9 page 14, lines 8 - 20 page 16, lines 4 - 24 page 19, second paragraph page 20, line 7 - page 24, line10 figures 1 - 4, 34, 35	36, 75 and 101 59, 92 103 - 110 138 - 139 141 - 143
X	WO 03/015923A1 - Adey et al (BioMicro Systems Inc.) 27 Feb., 2003 (2003/02/27) Abstract page 1, last paragraph page 3, line 14 - page 4, line 6 page 5, line 9 - page 6, line 25 page 7, line 23 - page 8, line 29 page 9, lines 9 - 21	1 - 8, 10 - 16, 18 - 20, 23 - 24, 29 - 30, 34, 37, 39 - 44, 47 - 50, 52, 60 - 67, 70 - 73, 76, 78 - 83, 86 - 89, 91, 93 - 99, 111, 113, 119 - 123, 125 - 127, 129 - 130, 136 & 137
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.		<input checked="" type="checkbox"/> See patent family annex.
<p>* Special categories of cited documents :</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>		
Date of the actual completion of the international search 22 June 2005 (22-06-2005)		Date of mailing of the international search report 12 July 2005 (12-07-2005)
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 001(819)953-2476		Authorized officer Patrick Norman (819) 997-2156

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2005/000458

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	page 11, lines 1 - 5 page 14, line 25 - page 15, line 22 Accompanying figures	53 - 58 59, 92
Y	US2002/0142470A1 - Clarke et al, 3 Oct., 2002 (2002/10/03) Abstract page 2, paragraph 0011 - page 5, paragraph 26 figures	103 - 108 138 - 139 141
Y	US6099803 - Ackley et al, (Nanogen Inc.) 8 Aug., 2000 (2000/08/08) Abstract col. 9, lines 50 - col. 10, line 27 col. 11, line 39 - col. 12, line 10	45 - 46, 84 - 85
Publications:		
Y	"A novel design on a CD disk for 2 point calibration measurement", Madou et al, Sensors and Actuators A, vol. 91(3), 2001, pages 301 - 306. Abstract page 301, second and fourth paragraphs figures 1 & 6	109 - 110 142 - 43
Y	"Electrokinetically controlled microfluidic analysis systems", Bousse et al, Annual review of biopsies and biomolecular structure, vol. 29, 2000, pages 155 - 181. page 161, last paragraph before "Silicon Devices" page 169, last paragraph figures 5 & 9	36, 75 and 101
A	"Fabrication of topologically complex three dimensional microfluidic systems in PDMS by rapid prototyping", Anderson et al, Analytical Chemistry, vol. 72, No. 14, July 15, 2000, pages 3158 - 3164).	all

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/CA2005/000458
--

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO0135088	17-05-2001	AU2249001 A US6878255 B1 WO0135088 A1	06-06-2001 12-04-2005 17-05-2001
WO03015923	27-02-2003	AU2002256996 A1 CA2450676 A1 EP1372848 A1 EP1386168 A1 JP2004533605 T JP2005513441 T US2002192701 A1 US2004037739 A1 US2004109793 A1 US2005019898 A1 WO02072264 A1 WO03015922 A1 WO03015923 A1	30-06-2003 19-09-2002 02-01-2004 04-02-2004 04-11-2004 12-05-2005 19-12-2002 26-02-2004 10-06-2004 27-01-2005 19-09-2002 27-02-2003 27-02-2003
US2002/0142470	03-10-2002	US6743632 B2 WO02073170 A1	01-06-2004 19-09-2002
US6099803	08-08-2000	AT110738 T AT175421 T AT199054 T AT201692 T AT211259 T AT220459 T AT231559 T AT232604 T AT244065 T AT246040 T AT272068 T AT287575 T AU651795 B2 AU663300 B2 AU667497 B2 AU672723 B2 AU692800 B2 AU702773 B2 AU708677 B2 AU722148 B2 AU723134 B2 AU723564 B2 AU725433 B2 AU733500 B2 AU733501 B2 AU733523 B2 AU738493 B2 AU742310 B2 AU742960 B2 AU743074 B2 AU763514 B2 AU769715 B2 AU769929 B2 AU777515 B2 AU1248292 A AU1466201 A	15-09-1994 15-01-1999 15-02-2001 15-06-2001 15-01-2002 15-07-2002 15-02-2003 15-02-2003 15-07-2003 15-08-2003 15-08-2004 15-02-2005 04-08-1994 05-10-1995 28-03-1996 10-10-1996 18-06-1998 04-03-1999 12-08-1999 20-07-2000 17-08-2000 31-08-2000 12-10-2000 17-05-2001 17-05-2001 17-05-2001 20-09-2001 20-12-2001 17-01-2002 17-01-2002 24-07-2003 05-02-2004 12-02-2004 21-10-2004 08-07-1992 06-06-2001

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2005/000458

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
		AU1706999 A	28-06-1999
		AU1742300 A	19-06-2000
		AU2344599 A	16-08-1999
		AU2595000 A	12-07-2000
		AU2763899 A	06-09-1999
		AU2765399 A	15-09-1999
		AU2966195 A	09-02-1996
		AU3136493 A	07-06-1993
		AU3277901 A	31-07-2001
		AU3507095 A	27-03-1996
		AU3717697 A	02-02-1998
		AU3823297 A	26-03-1998
		AU3930500 A	14-11-2000
		AU3960293 A	15-08-1993
		AU4071997 A	26-03-1998
		AU4157402 A	18-06-2002
		AU5367198 A	29-06-1998
		AU5371298 A	17-07-1998
		AU5837190 A	07-01-1991
		AU6187301 A	21-03-2002
		AU6403400 A	05-02-2001
		AU6788800 A	08-10-2001
		AU6968996 A	17-04-1997
		AU7073496 A	01-04-1997
		AU7258398 A	24-11-1998
		AU7474098 A	08-12-1998
		AU7765594 A	04-05-1995
		AU8125794 A	23-05-1995
		AU8522798 A	10-12-1998
		AU8522898 A	10-12-1998
		AU9136791 A	08-07-1992
		AU9153491 A	08-07-1992
		BR9007425 A	21-07-1992
		BR9407952 A	26-11-1996
		BR9506035 A	14-10-1997
		BR9508908 A	28-10-1997
		BR9610618 A	06-04-1999
		BR9710271 A	10-08-1999
		BR9712800 A	23-11-1999
		BR9712803 A	23-11-1999
		BR9713991 A	08-02-2000
		BR9713995 A	29-02-2000
		BR9814257 A	03-10-2000
		BR9908349 A	05-12-2000
		BR9909207 A	06-11-2001
		BR9916840 A	09-10-2001
		CA2054706 A1	08-12-1990
		CA2097708 A1	07-06-1992
		CA2123133 A1	13-05-1993
		CA2169852 A1	25-01-1996
		CA2175483 A1	11-05-1995
		CA2191240 A1	21-12-1995
		CA2199515 A1	14-03-1996
		CA2232047 A1	20-03-1997
		CA2233238 A1	03-04-1997
		CA2259406 A1	15-01-1998
		CA2264688 A1	12-03-1998
		CA2264780 A1	12-03-1998
		CA2274047 A1	11-06-1998
		CA2274071 A1	02-07-1998
		CA2278878 A1	08-12-1990
		CA2278883 A1	08-12-1990
		CA2312568 A1	17-06-1999
		CA2319705 A1	05-08-1999
		CA2320798 A1	26-08-1999
		CA2322206 A1	02-09-1999

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2005/000458

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
		CA2353461 A1	29-06-2000
		CA2366657 A1	19-10-2000
		CA2379762 A1	25-01-2001
		CA2389314 A1	17-05-2001
		CA2391491 A1	13-12-1990
		CA2477138 A1	11-05-1995
		CN1121614C C	17-09-2003
		CN1135220 A	06-11-1996
		CN1141078 A	22-01-1997
		CN1148579C C	05-05-2004
		CN1170942C C	13-10-2004
		CN1180248C C	15-12-2004
		CN1202929 A	23-12-1998
		CN1234116 A	03-11-1999
		CN1268905 A	04-10-2000
		CN1284082 A	14-02-2001
		CN1287689 A	14-03-2001
		CN1296525 A	23-05-2001
		CN1297489 A	30-05-2001
		CN1550556 A	01-12-2004
		CN1558207 A	29-12-2004
		DE953835T T1	13-06-2002
		DE69012119D D1	06-10-1994
		DE69012119T T2	22-12-1994
		DE69032888D D1	18-02-1999
		DE69032888T T2	29-07-1999
		DE69132531D D1	15-03-2001
		DE69132531T T2	13-09-2001
		DE69132843D D1	10-01-2002
		DE69132843T T2	12-09-2002
		DE69132905D D1	21-02-2002
		DE69132905T T2	01-08-2002
		DE69133293D D1	07-08-2003
		DE69133293T T2	27-05-2004
		DE69231853D D1	05-07-2001
		DE69231853T T2	13-09-2001
		DE69233391D D1	02-09-2004
		DE69429535D D1	31-01-2002
		DE69429535T T2	22-08-2002
		DE69527375D D1	14-08-2002
		DE69527375T T2	13-02-2003
		DE69529601D D1	20-03-2003
		DE69625920D D1	27-02-2003
		DE69625920T T2	30-10-2003
		DE69732305D D1	24-02-2005
		DE69909971D D1	04-09-2003
		DK476014T T3	14-11-1994
		DK562025T T3	18-06-2001
		DK619321T T3	30-08-1999
		DK620822T T3	27-08-2001
		DK727045T T3	15-04-2002
		DK834575T T3	02-04-2002
		DK834576T T3	22-04-2002
		DK871888T T3	14-10-2002
		EP0476014 A1	25-03-1992
		EP0562025 A1	29-09-1993
		EP0562047 A1	29-09-1993
		EP0619321 A1	12-10-1994
		EP0620822 A1	26-10-1994
		EP0717113 A2	19-06-1996
		EP0717749 A1	26-06-1996
		EP0727045 A1	21-08-1996
		EP0764322 A1	26-03-1997
		EP0834575 A2	08-04-1998
		EP0834576 A2	08-04-1998

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2005/000458

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
		EP0848067 A2	17-06-1998
		EP0852617 A1	15-07-1998
		EP0853679 A1	22-07-1998
		EP0871888 A1	21-10-1998
		EP0902034 A2	17-03-1999
		EP0920624 A1	09-06-1999
		EP0923725 A1	23-06-1999
		EP0943158 A2	22-09-1999
		EP0953835 A1	03-11-1999
		EP0981652 A1	08-12-1999
		EP1019711 A1	19-07-2000
		EP1036085 A1	20-09-2000
		EP1046421 A2	25-10-2000
		EP1053055 A1	22-11-2000
		EP1054949 A1	29-11-2000
		EP1056887 A1	06-12-2000
		EP1067134 A2	10-01-2001
		EP1120155 A2	01-08-2001
		EP1120156 A2	01-08-2001
		EP1120157 A2	01-08-2001
		EP1120469 A2	01-08-2001
		EP1144092 A1	17-10-2001
		EP1173611 A1	23-01-2002
		EP1204853 A1	15-05-2002
		EP1230340 A1	14-08-2002
		EP1231282 A2	14-08-2002
		EP1341932 A2	10-09-2003
		EP1524695 A2	20-04-2005
		ES2058921T T3	01-11-1994
		ES2129101T T3	01-06-1999
		ES2155822T T3	01-06-2001
		ES2159282T T3	01-10-2001
		ES2170133T T3	01-08-2002
		ES2179114T T3	16-01-2003
		FI109130B B1	31-05-2002
		FI961034 A	02-05-1996
		FI961843 A	20-06-1996
		FI970957 A	07-05-1997
		GB2248840 A	22-04-1992
		GR3035773T T3	31-07-2001
		GR3036456T T3	30-11-2001
		HK61395 A	05-05-1995
		HK64195 A	05-05-1995
		HK1010218 A1	26-07-2002
		HK1010219 A1	26-07-2002
		HK1011079 A1	07-06-2002
		HK1011080 A1	27-06-2003
		HK1015416 A1	19-12-2003
		HU59938 A2	28-07-1992
		IL94551 A	30-03-1995
		IL100193 A	31-10-2000
		IL145880D D0	25-07-2002
		JP3509859B2 B2	22-03-2004
		JP4505763T T	08-10-1992
		JP6504997T T	09-06-1994
		JP9503307T T	31-03-1997
		JP9504910T T	13-05-1997
		JP10272000 A	13-10-1998
		JP10504925T T	12-05-1998
		JP10505497T T	02-06-1998
		JP11021293 A	26-01-1999
		JP11315095 A	16-11-1999
		JP11512293T T	26-10-1999
		JP11512605T T	02-11-1999
		JP2001500966T T	23-01-2001
		JP2001501301T T	30-01-2001

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2005/000458

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
		JP2001506931T T	29-05-2001
		JP2001525193T T	11-12-2001
		JP2001525921T T	11-12-2001
		JP2002501611T T	15-01-2002
		JP2002502047T T	22-01-2002
		JP2002519998T T	09-07-2002
		JP2002536952T T	05-11-2002
		JP2002541823T T	10-12-2002
		JP2003505046T T	12-02-2003
		JP2003524750T T	19-08-2003
		JP2004002386 A	08-01-2004
		JP2004500247T T	08-01-2004
		JP2004524823T T	19-08-2004
		JP2005112867 A	28-04-2005
		KR9701577 B1	11-02-1997
		KR9701578 B1	11-02-1997
		KR2000023659 A	25-04-2000
		KR2000057400 A	15-09-2000
		KR2000057427 A	15-09-2000
		MX9102400 A1	01-06-1992
		MXPA01010381 A	21-07-2003
		NL191992B B	01-08-1996
		NO301233B B1	29-09-1997
		NO20014932 A	12-12-2001
		NZ233886 A	25-02-1993
		NZ240744 A	27-04-1994
		NZ275962 A	28-07-1998
		NZ289731 A	24-09-1998
		NZ292791 A	26-06-1998
		NZ318253 A	28-02-2000
		NZ330036 A	28-01-2000
		NZ330037 A	28-01-2000
		NZ333947 A	24-11-2000
		NZ334314 A	29-09-2000
		NZ334450 A	27-10-2000
		NZ500373 A	31-08-2001
		NZ505615 A	30-11-2001
		NZ505858 A	27-09-2002
		NZ506204 A	30-06-2003
		NZ512087 A	30-05-2003
		NZ512954 A	28-03-2003
		PT727045T T	28-06-2002
		RU2107072 C1	20-03-1998
		SG13595G G	16-06-1995
		TW434254 B	16-05-2001
		US5143854 A	01-09-1992
		US5242974 A	07-09-1993